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APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/773,550	02/05/2004		Frank J. Cordiale	DE .002	6795	
41898	7590	04/19/2006		EXAMINER		
LONG & C			JONES, JUDSON			
1575 DELU RENO, NV		NE, SUITE 32	ART UNIT	PAPER NUMBER		
idento, itt	0,302			2834		
				DATE MAILED: 04/19/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

BIL

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	Application No.	Applicant(s)					
	10/773,550	CORDIALE ET AL.					
Office Action Summary	Examiner	Art Unit					
	Judson H. Jones	2834					
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address					
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tim iill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	I. lely filed the mailing date of this communication. D (35 U.S.C. § 133).					
Status	•						
1)⊠ Responsive to communication(s) filed on <u>02 Fe</u>	shruany 2006						
	action is non-final.						
<u> </u>		secution as to the morite is					
• •	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
·	л рано <i>Quayle</i> , 1900 О.Б. 11, 40	0.0.213.					
Disposition of Claims							
4)⊠ Claim(s) <u>1-5,7,9-12,14 and 16-19</u> is/are pendin	☑ Claim(s) <u>1-5,7,9-12,14 and 16-19</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdraw	4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) <u>1-5,7,9,11,12,14 and 16-19</u> is/are allow							
6)⊠ Claim(s) <u>10</u> is/are rejected.	_						
7) Claim(s) is/are objected to.	· · · · · · · · · · · · · · · · · · · · ·						
8) Claim(s) are subject to restriction and/or	election requirement.						
Application Papers							
9)☐ The specification is objected to by the Examiner							
		d to be the French of					
10) The drawing(s) filed on <u>02 February 2006</u> is/are							
Applicant may not request that any objection to the c							
Replacement drawing sheet(s) including the correction							
11)☐ The oath or declaration is objected to by the Exa	aminer. Note the attached Office	Action or form PTO-152.					
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:							
1. Certified copies of the priority documents							
	 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage 						
		d in this National Stage					
	application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of	or the certified copies not receive	d.					
Attachment(s)							
1) Notice of References Cited (PTO-892)	4) Interview Summary						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da						
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Informal Page 6) Other:	atent Application (PTO-152)					
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DETAILED ACTION

Claim 19 is objected to because of the following informalities: this claim is dependent on cancelled claim 15. Appropriate correction is required.

Applicant's Arguments

Applicant's arguments with respect to claim 10 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claim 10 is rejected under 35 U.S.C. 103(a) as being unpatentable over Gifford in view of Maslov et al. 6,812,661 B2. Gifford discloses multiple wire coil set solenoids with reciprocating magnetic objects 12a-12d with an energizing control system that variably controls the time duration for the energizing of the individual coil wire sets as described in column 2 lines 23-27 and column 5 lines 36-63 but does not disclose an energy control system that skips wire coil sets at selected times. Maslov et al. teaches in column 3 lines 8 ½ to 40 ½ that motors have different efficiencies at different speeds, based on the number or coils or wire turns in a coil. Since Maslov et al. and Gifford are from the same field of endeavor it would have been obvious at the time the invention was made for one of ordinary skill in the art to have varied the number of coils or turns in a coil in a reciprocating motor in order to increase the efficiency of the device.

Allowable Subject Matter

Claims 1-5, 7-9, 11-14 and 16-19 are allowed.

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The following is a statement of reasons for the indication of allowable subject matter:

The prior art of record does not disclose or teach a solenoid based propulsion system where the magnetic object may be propelled out of a tube when at least one wire coil set is de-energized in combination with the other features of claims 1 and 14.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Judson H. Jones whose telephone number is 571-272-2025. The examiner can normally be reached on 8-4:30 M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Darren Schuberg can be reached on 571-272-2044. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Judson H. Jones 4/17/2006



REPLACEMENT SHEET

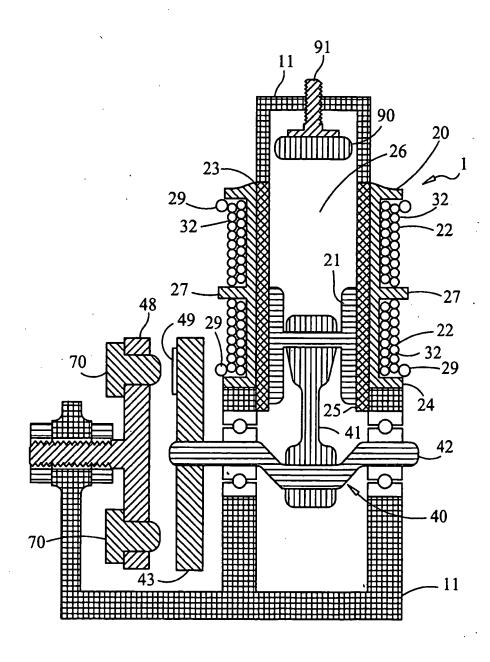


FIG. 1

aggreed for entry